

CLAIMS

What is claimed is:

1. (Amended) A product alignment wire frame device for use in ~~manually~~ aligning product containers on a display ~~shelf~~ surface, the wire frame product alignment device comprising:

~~an elongated first~~ wire side rail member having a front and a rear, ~~such that the first side member may rest on the display shelf and may be pushed and pulled along a plane parallel to the display shelf ;~~

~~an elongated second~~ wire side rail member having a front and a rear, ~~such that the first side member may rest on the display shelf and may be pushed and pulled along a plane parallel to the display shelf; and~~

a rear wire member ~~integral~~ attached to the rear of the first side member and integral attached to the rear of the second side member, such that the rear wire member ~~may be pushed and pulled along a plane parallel to the display shelf by pushing and pulling the first side member and the second side member. is~~ positioned substantially above the first wire side rail member and the second wire side rail member; and

a front wire member attached to the front of the first side member and attached to the front of the second side member, such that the front wire member may be moved forward or backward relative to the display shelf in order to pull or push the rear wire member forward or backward relative to the display shelf.

- 2.-33. (Cancelled)

34. (New) The product alignment wire frame device of claim 1 further comprising a closed wire frame.
35. (New) The product alignment wire frame device of claim 34 wherein the wire frame is closed by welding the ends of the wire together.
36. (New) The product alignment wire frame device of claim 34 wherein the wire frame is closed by gluing the ends of the wire together.
37. (New) The product alignment wire frame device of claim 34 further comprising at least one coupler, such that the coupler holds a first wire end in proximity to a second wire end.
38. (New) The product alignment wire frame device of claim 1 wherein the width of the rear wire member and the width of the front wire member are adjustable in order to adjust the distance between the first wire side rail member and the second wire side rail member.
39. (New) The product alignment device of claim 38 wherein:
- the width of the rear wire member is adjustable by bending the rear wire member,
- and
- the width of the front wire member is adjustable by bending the front wire member.

40. (New) The product alignment wire frame device of claim 1 wherein the wire frame includes at least one coating.

41. (New) A product alignment device for use in aligning product containers on a display shelf, the product alignment device comprising:

- a first wire side rail member having a front and a rear;
- a second wire side rail member having a front and a rear;
- an adjustable-width rear plate attached to the rear of the first side rail member and attached to the rear of the second side rail member; and
- an adjustable-width front member attached to the front of the first side rail member and attached to the front of the second side rail member, such that the front member may be moved forward or backward relative to the display shelf in order to pull or push the rear plate forward or backward relative to the display shelf.

42. (New) The product alignment device of claim 41 wherein the rear plate width may be adjusted by bending the rear plate.

43. (New) The product alignment device of claim 41 wherein the front member is a bent wire, so that the width of the front member may be adjusted by bending the wire.

44. (New) The product alignment device of claim 41 wherein

the rear plate includes a first recess for receiving a portion of the first wire side rail member; and

the rear plate includes a second recess for receiving a portion of the second wire side rail member.

45. (New) A system for displaying products generally forming a queue on a display shelf, the system comprising:

a product display shelf having a front portion and a rear portion;

at least one product container positioned on the display shelf; and

an arranging means operable for moving the product container manually from the rear portion of the display shelf towards the front portion of the display shelf, the arranging means comprising

a first wire side rail member having a front and a rear;

a second wire side rail member having a front and a rear, such that the second wire side rail member is spaced apart from the first wire side rail member to define a channel to receive the product container on the display shelf;

a rear wire member attached to the rear of the first side member and attached to the rear of the second side member, such that the rear wire member is positioned substantially above the first wire side rail member and the second wire side rail member; and

a front wire member attached to the front of the first side member and attached to the front of the second side member, such that the front wire member may be

moved forward or backward relative to the display shelf in order to pull or push the rear wire member forward or backward relative to the display shelf.

46. (New) The system for displaying products of claim 45 wherein

the product container comprises a first edge in proximity to the first wire side rail member, and a second edge in proximity to the second wire side rail member; the first wire side rail member is positioned below the outermost point of the first edge; and

the second wire side rail member is positioned below the outermost point of the second edge.

47. (New) The system for displaying products of claim 45, further comprising

a temporary shelf basket for extending to receive products from the display shelf to facilitate the rotation of older products from the rear portion of the display shelf to the front portion and newer products to the rear portion of the display shelf; the shelf basket comprising means to engage the display shelf for maintaining the shelf basket in a predetermined position.

48. (New) The system for displaying products of claim 45, further comprising at least one

divider support base placed on the display shelf and under the first and second wire side rail members, the divider support base comprising

a base, such that the first and second wire side rail members may be pushed and pulled on top of the base, and

a plurality of support ribs, such that height of the support ribs is greater than the height of the first and second wire side rail members, so that the first and second wire side rail members may be moved underneath the base of containers which are placed on the support ribs.

49. (New) A system for displaying products generally forming a queue on a display shelf, the system comprising:

- a product display shelf having a front portion and a rear portion;
- at least one product container positioned on the display shelf; and
- an arranging means operable for moving the product container manually from the rear portion of the display shelf towards the front portion of the display shelf, the arranging means comprising
 - a first wire side rail member having a front and a rear,
 - a second wire side rail member having a front and a rear, such that the second wire side rail member is spaced apart from the first wire side rail member to define a channel to receive the product container on the display shelf,
 - an adjustable-width rear plate integral to the rear of the first side rail member and integral to the rear of the second side rail member, and
 - an adjustable-width front member attached to the front of the first side rail member and attached to the front of the second side rail member, such that the front member may be moved forward or backward relative to the display shelf in order to pull or push the rear plate forward or backward relative to the display shelf.

50. (New) A system for displaying products generally forming a queue in a display box, the system comprising:

- a product container display box comprising

- a bottom having a rear portion and a front portion,

- a first side, and

- a second side;

- at least one product container positioned in the display box; and

- an arranging means operable for moving the product container manually from the rear portion of the display box towards the front portion of the display shelf, the arranging means comprising

- a first wire side rail member having a front and a rear;

- a second wire side rail member having a front and a rear, such that the second wire side rail member is spaced apart from the first wire side rail member to define a channel to receive the product container on the display box bottom;

- a rear wire member attached to the rear of the first side member and integral to the rear of the second side member, such that the rear wire member is positioned substantially above the first wire side rail member and the second wire side rail member; and

- a front wire member attached to the front of the first side member and integral to the front of the second side member, such that the front wire member may be moved forward or backward relative to the display box in order to pull or push the rear wire member forward or backward relative to the display box.

51. (New) The system for displaying products of claim 50 wherein
the product container display box is positioned on a display shelf.

52. (New) The system for displaying products of claim 50 wherein
the product container display box further comprises a front, such that the front
comprises
a first slot to accept a portion of the first wire side rail member, and
a second slot to accept a portion of the second wire side rail member.

53. (New) A method for aligning product containers in a queue on a display surface,
comprising:
placing an arranging means on the display surface, the arranging means
comprising
a first wire side rail member having a front and a rear;
a second wire side rail member having a front and a rear, such that the second
wire side rail member is spaced apart from the first wire side rail member to
define a channel to receive the product containers on the display surface;
a rear wire member attached to the rear of the first side member and attached
to the rear of the second side member, such that the rear wire member is
positioned substantially above the first wire side rail member and the second
wire side rail member; and
a front wire member attached to the front of the first side member and

attached to the front of the second side member, such that the front wire member may be moved forward or backward relative to the display shelf in order to pull or push the rear wire member forward or backward relative to the display surface;

placing at least one product container in the channel, such that the product container comprises a first edge in proximity to the first slide rail member, and a second edge in proximity to the second slide rail member,

pulling the front pull element away from the display surface and thereby pulling the first and second slide rails and the rear positioning element outwardly with respect to the display shelf, thereby engaging the rearmost product container and pulling all product containers located in the channel toward the front of the display surface; and

pushing the front pull element back toward the rear of the display surface after the product containers are properly aligned with respect to the front of the display surface.

54. (New) The method of claim 53 further comprising

positioning the first slide rail member below the outermost point of the first edge of the containers; and

positioning the second slide rail member below the outermost point of the second edge of the containers.

55. (New) A method for displaying products generally forming a queue in a display box, the method comprising:

inverting a display box, the display box containing a plurality of product containers, and the display box comprising

a bottom having a rear portion and a front portion,

a top,

a front face,

a rear face,

a first side face, and

a second side face;

cutting the rear face, the front face, the first side face, and the second side face, so that a portion of each face remains integral to the bottom;

removing the bottom portion and the faces that remain integral to the bottom, so that the bottoms of a row of containers is exposed;

providing a first slot and a second slot on the front face;

inserting an arranging means over the bottoms of the row of containers, the arranging means comprising

a first wire side rail member having a front and a rear;

a second wire side rail member having a front and a rear, such that the second wire side rail member is spaced apart from the first wire side rail member to define a channel to receive the product containers in the display box;

a rear wire member attached to the rear of the first side member and attached to the rear of the second side member, such that the rear wire member is

positioned substantially above the first wire side rail member and the second wire side rail member; and

a front wire member attached to the front of the first side member and attached to the front of the second side member, such that the front wire member may be moved forward or backward relative to the display box in order to pull or push the rear wire member forward or backward relative to the display box;

replacing the bottom portion and the faces that remain integral to the bottom on the inverted row of containers;

inverting the display box so that a portion of the first wire side rail member fits into the first slot, and a portion of the second wire side rail member fits into the second slot;

removing the top of the display box so that at least a portion of the product containers are exposed; and

using the arranging means to move product containers toward the front of the display box.

56. (New) A method for displaying products of claim 55 further comprising

removing the front of the display box so that the arranging means may slide on the bottom of the display box.

57. (New) The product alignment wire frame device of claim 1 wherein

the rear wire member comprises

an upwardly bent portion of the rear of the first side member,
an upwardly bent portion of the rear of the second side member, and
a rear wire member connecting the upwardly bent portion of the rear of the
first side member to the upwardly bent portion of the rear of the second side
member.

58. (New) The product alignment wire frame device of claim 57 wherein

the front wire member comprises

an upwardly bent portion of the front of the first side member,
an upwardly bent portion of the front of the second side member, and
a front wire member connecting the upwardly bent portion of the front of the
first side member to the upwardly bent portion of the front of the second side
member.

59. (New) A method of adjusting the length of a wire frame pull device, the method
comprising

providing a wire frame pull device having a flat generally rectangular shape, and
having a front portion and a rear portion;
bending the front portion of the wire frame pull device upwards, thereby forming
a pull handle;
determining the desired length of the pull device; and

bending the rear portion of the wire frame pull device upwards such that the device has the desired length, and such that the rear portion forms a pusher element.

60. (New) A method for aligning product containers in a queue on a display surface, comprising:

placing a container support on the display surface, the container support having a first edge, and second edge, and a top surface;

placing an arranging means on the display surface, the arranging means comprising

a first wire side rail member having a front and a rear, such that the first wire side rail is placed outside of the first edge of the container support,

a second wire side rail member having a front and a rear, such that the second wire side rail is placed outside of the second edge of the container support,

a rear wire member attached to the rear of the first side member and attached to the rear of the second side member, such that the rear wire member is positioned substantially above the first wire side rail member and the second wire side rail member; and

a front wire member attached to the front of the first side member and attached to the front of the second side member, such that the front wire member may be moved forward or backward relative to the display shelf in order to pull or push the rear wire member forward or backward relative to the display surface;

placing at least one product container on the display surface;

pulling the front pull element away from the display surface and thereby pulling the first and second slide rails and the rear positioning element outwardly with respect to the display shelf, thereby engaging the rearmost product container and pulling all product containers positioned on the container support toward the front of the display surface; and

pushing the front pull element back toward the rear of the display surface after the product containers are properly aligned with respect to the front of the display surface.

61. (New) The method of claim 60 wherein

the container support is cardboard.

62. (New) The method of claim 61 wherein

a portion of the container over the rear of the display shelf.

63. (New) The method of claim 60 wherein

the container support is adhesively attached to the display shelf.

64. (New) The method of claim 60 wherein

the container support is magnetically attached to the display shelf.

65. (New) The system of claim 49 further comprising

a front stop device.

66. (New) A system for displaying products generally forming a queue on a display shelf, the system comprising:

- a product display shelf having a front portion and a rear portion;

- at least one product container positioned on the display shelf in a display row, the display row having a front portion and a rear portion;

- a front stop device positioned in the front portion of the display row;

- an arranging means operable for moving the product container manually from the rear portion of the display row towards the front portion of the display row, the arranging means comprising

 - a first wire side rail member having a front and a rear,

 - a second wire side rail member having a front and a rear,

 - a rear pusher element, and

 - a front member attached to the front of the first side rail member and attached to the front of the second side rail member, such that the front member may be moved forward or backward relative to the display shelf in order to pull or push the rear plate forward or backward relative to the display shelf.

67. (New) The system of claim 66 wherein

- the front stop device extends across the front portions of a plurality of display rows.

68. (New) The system of claim 66 wherein

the front stop snaps onto the front of the display shelf.